



## U.S. NAVAL OCEANOGRAPHY COMMAND CENTER JOINT TYPHOON WARNING CENTER COMNAVMARIANAS BOX 17 FPO SAN FRANCISCO 96630

\*JESUS B. TUPAZ Captain, United States Navy

KENDALL G. HINMAN JR.

Captain, United States Navy

COMMANDING

DEAN A. MORSS

Lieutenant Colonel, United States Air Force
COMMANDER, DETACHMENT 1, 1ST WEATHER WING
DIRECTOR, JOINT TYPHOON WARNING CENTER





## STAFF

LCDR Benjamin L. Holt, USN MAJ Frank H. Wells, USAF \*MAJ Richard A. Todd, USAF \*CAPT James N. Heil, USAF LT Robert L. Allen, USN CAPT Roger T. Edson, USAF CAPT Robert S. Lilianstrom, USAF LT Robert C. Weir, USN \*ENS James W. Allen, USNR \*ENS Mary K. Kopper, USN ENS Richard E. Cianflone, USNR ENS Terrence J. Bonnstetter, USNR SSGT Terry R. Sandmeier, USAF \*AG2 Stephani A. Bubanich, USN \*AG2 Mahlon W. Perrin, USN AG2 James A. Frush, USN AG2 Carl L. Hurless, USN AG2 Robert B. Campbell, USN \*SGT Michael P. Blomquist, USAF \*SGT Andrew E. Parker, USAF \*AG3 Suzanne L. Silverson, USN \*AG3 Beverly A. McCreary, USN AG3 Vickianne Clark, USN AG3 Anne W. Lackey, USN SGT John W. Werner, USAF \*SRA James W. Lewis, USAF SRA John C. Giles, USAF SRA Jeffrey A. Goldman, USAF AlC Jeffrey L. Cimini, USAF

CONTRIBUTOR: Detachment 1, 1WW - USAF Satellite Operations

\*CAPT Michael S. Risch CAPT James N. Heil \*CAPT James A. Smith 1LT David T. Miller MSGT Tommy M. Pelley TSGT Michael R. Pukajlo SSGT Terrence M. Young

\*Transferred during 1982

## **FOREWORD**

The Annual Tropical Cyclone Report is prepared by the staff of the Joint Typhoon Warning Center (JTWC), a combined USAF/USN organization operating under the command of the Commanding Officer, U.S. Naval Oceanography Command Center/Joint Typhoon Warning Center, Guam. JTWC was established in April 1959 when CINCPAC directed CINCPACFLT to provide a single tropical cyclone warning center for the western North Pacific region. The operations of JTWC are guided by CINCPACINST 3140.1 (series).

The mission of the Joint Typhoon Warning Center is multi-faceted and includes:

- 1. Continuous meteorological monitoring of all tropical activity in the Northern and Southern Hemispheres, from 180 degrees longitude westward to the east coast of Africa, to anticipate tropical cyclone development.
- 2. Issuing warnings for all significant tropical cyclones in the above area of responsibility.
- Determination or reconnaissance requirements for tropical cyclone surveillance and assignment of appropriate priorities.
- 4. In depth post-storm analysis of all tropical cyclones occurring within the western North Pacific and North Indian Oceans for publication in this report.
- 5. Cooperation with the Naval Environmental Prediction Research Facility (NEPRF), Monterey, California, on the operation evaluation of tropical cyclone models and forecast aids, and the development of new techniques to support operational forecast scenarios.

Should JTWC become incapacitated, the Alternate JTWC (AJTWC), located at the U.S. Naval Western Oceanography Center, Pearl Harbor, Hawaii, assumes warning responsibilities. Assistance in determining satellite reconnaissance requirements, and in

obtaining the resultant data, is provided by Letachment 4, lWW, Hickman AFB, Hawaii.

Satellite imagery used throughout this report represents data obtained by the tropical cyclone satellite surveillance network. The personnel of Det 1, lWW, colocated with JTWC at Nimitz Hill, Guam, coordinate the satellite acquisitions and tropical cyclone surveillance by the following units:

Det 5, 1WW, Clark AB, RP
Det 8, 1WW, Kadena AB, Japan
Det 15, 30WS, Osan AB, Korea
Det 4, 1WW, Hickam AFB, Hawaii
Air Force Global Weather Center,
Offutt AFB, Nebraska

In addition, the Naval Oceanography Command Detachment, Diego Garcia, and DMSP equipped U.S. Navy aircraft carriers have been instrumental in providing vital satellite position fixes of tropical disturbances in the Indian Ocean.

In line with the proposals to implement metric units of measurements within the United States over the next few years, various civilian and military organizations have begun extensive educational programs through use of metric equivalents in their publications. This report will include metric unit equivalent measures whenever possible.

A special thanks is extended to the men and women of: 27th Communication Squadron, Operating Location C, for their continuing support by providing high quality, real-time satellite imagery; the Pacific Fleet Audio-Visual Center, Guam, for their assistance in the reproduction of satellite and graphics data for this report; to the Navy Publications and Printing Service Branch Office, Guam, for their efforts to meet publication deadlines; and to Mrs. Cynthia Blevins for her patience and perseverance in typing the many drafts and the final manuscript of the report.

NOTE: Appendix 5 contains information on how to obtain past issues of the Annual Typhoon Report (redesignated Annual Tropical Cyclone Report in 1980).

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